SHARP®

General Information
Setting Up
Basic Operations
Recording
Special Functions
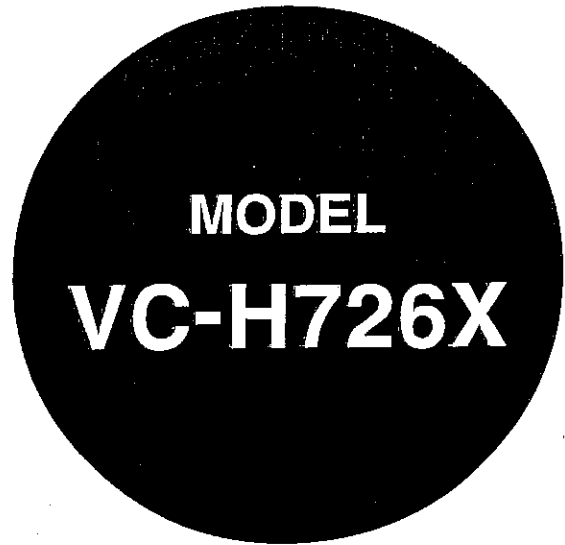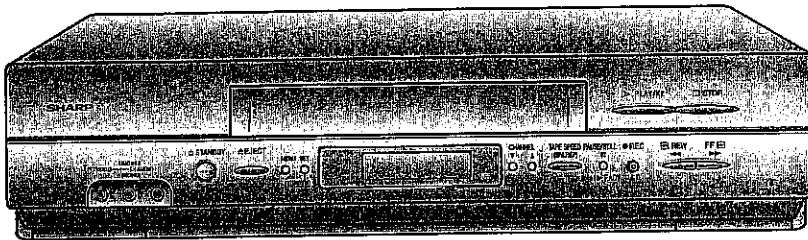Helpful Hints

MODEL

VC-H726X

VIDEO CASSETTE RECORDER

OPERATION MANUAL

Please read this operation manual carefully before using the VCR.

MID-DRIVE

VHS **HQ** HIGH QUALITY

PAL   NTSC

As an ENERGY STAR® Partner, SHARP has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

CONTENTS

🖉 IMPORTANT SAFEGUARDS AND PRECAUTIONS

CAUTION

BEFORE OPERATING YOUR NEW VCR, PLEASE CAREFULLY READ THIS OPERATION MANUAL AND THEN SAVE IT FOR FUTURE REFERENCE AS IT WILL BE USEFUL IF YOU HAVE ANY PROBLEMS OPERATING YOUR VCR IN THE FUTURE.

Location and Handling

1. Air vents are provided in the VCR cabinet to prevent excessive temperatures inside the unit. Do not place your VCR in closed spaces, cover it, or otherwise block the vents.

2. Do not place the VCR in direct sunlight, or near heat sources.

3. Keep the VCR and tapes away from strong magnetic objects.

4. Do not insert or drop anything into the VCR through the air vents or cassette compartment as this could cause serious damage, possibly resulting in fire.

5. Do not place any object containing water or other liquids on the VCR. In the event that liquid should enter the cabinet, unplug the VCR immediately and contact the retailer or a service centre approved by Sharp immediately.

6. Do not remove the VCR cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to the VCR. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by Sharp.

7. To prevent fire, never place any type of candle or naked flames on the top or near the VCR set.

8. To prevent fire or shock hazard, do not expose this products to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the products.

9. The use of head cleaning tapes is not recommended as they may cause damage to your machine.
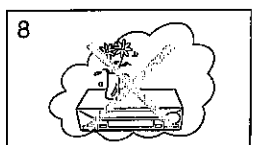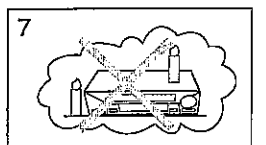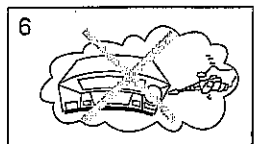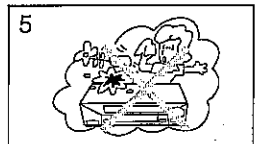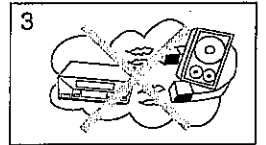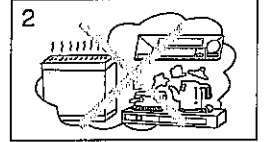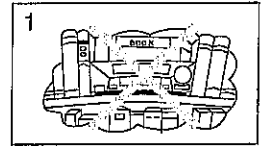
Caution—Prevent Condensation

When moving the VCR from a cold place to a warm one, condensation (dew) is likely to form on the VCR drum and heads.
If you try to play back or record in these circumstances, the videotape and VCR may be damaged.
To prevent this, turn the power switch on and wait for a few hours for the VCR to warm up and dry before attempting playback or recording.
This is particularly important before loading a cassette for the first time after purchasing the VCR.

3
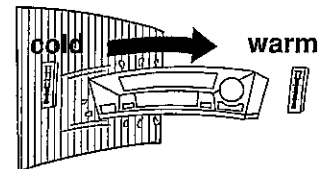
Service

Do not attempt to service this VCR yourself. Please carry out the user checks on page 35. If you still experience a problem, contact your dealer or nearest Sharp service facility.

Others

Copyright may exist in material you wish to record. Copying such material without permission of the relevant licensee(s) or owner(s) of the copyright is prohibited by law. SHARP is not in a position to authorize the recording of copyright works and nothing in this manual should be read or implied as giving that authority.

Features

- **VHS Hi-Fi Stereo Sound System/A2 Stereo System**
- **New Centre-Mounted Mechanism**
- **HQ (High Quality) Circuitry**
- **Multi Language On Screen Display (English, French, Spanish, Chinese)**
- **Sharp Super Picture** — Enhances picture quality during playback.
- **OSD (On Screen Display) with Menu Screen Guidance**
- **DPSS (Digital Programme Search System)**
- **Quick Start with Full Loading Mechanism**
- **365-Day, 8-Programme Timer (Daily/Weekly Programmable)**
- **S-VHS Quasi Playback**
  Notes for S-VHS tape
  - Playback of S-VHS recorded tapes is possible.
  - Playback of S-VHS image quality is not available.
  - Picture noise or distortion may appear on the screen during playback in the SLOW or STILL mode.
  - S-VHS recording is not available. However, HQ recording is possible with S-VHS tape.
- **Auto Channel Tuning**
- **48-Channel Preset PLL Frequency Synthesized Tuner**
- **POWER ON Feature**
- **Built-in Front AV Jacks/Video Input Terminals**
- **60-minutes Timer Memory Backup** — Timer settings, etc. remain in memory after power interruptions of up to 60 minutes.
- **X380 Super Speed Rewind** — Enhances rewinding at a speed 380 times faster than the LP mode recording/playback speed (only with an E-180 tape).
- **NTSC Recording** — NTSC signals can be recorded through the AV input terminals.
- **PAL EP (Extended Play) mode** — Triple Recording/Playback Time than SP (Standard Play) mode.
- **Auto Head Cleaning System**

POWER SUPPLY:
The voltage supply of this VCR is AC 240 V, 50/60 Hz.
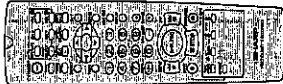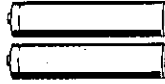
CASSETTE TAPE:
Use only video cassette tapes that carry the **VHS** or **VHS** mark.

Accessories

Be sure that the following accessories are all included with your VCR.

Coaxial cable (TV–VCR cable)	Remote control unit	Two (R6 UM/SUM-3 or AA) batteries for the remote control unit

POWER ON Feature

This VCR is not equipped with a mains power switch. Accordingly, nominal current to drive the clock is drawn at all times when the AC power cord is plugged into a wall socket. If the VCR is not to be used for an extended period, be sure to unplug the cord.

1. Definitions of POWER modes

POWER ON mode	• VCR in operation or ready for operation. • VCR display is on.
POWER STANDBY mode	• VCR in standby mode. • VCR display is off.

2. During POWER ON mode

Each time **STANDBY** on the VCR or the remote control is pressed, the POWER MODE changes as shown below.

(Current)

POWER ON mode	(Press **STANDBY** on the VCR or the remote control)	POWER STANDBY mode
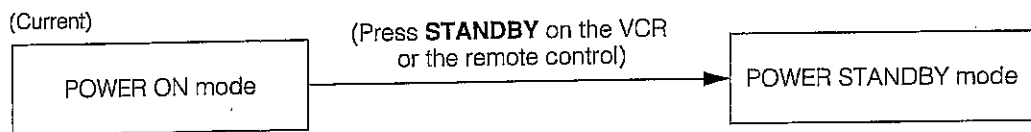
3. Switching from POWER STANDBY mode to POWER ON mode.

POWER ON mode	(Press **STOP** on the remote control)	POWER STANDBY mode
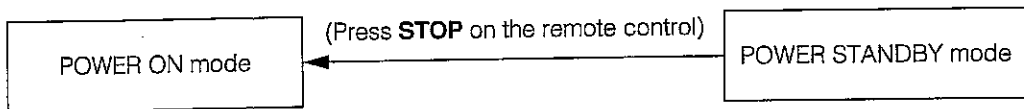
❶ Press **STOP** on the VCR or the remote control to switch from POWER STANDBY mode to POWER ON mode.

❷ By pressing one of the tape operation buttons on the remote control (**PLAY**, **REW**, **FF**, etc.) with a video tape in the VCR, the mode will automatically switch to POWER ON and the tape operation will begin.
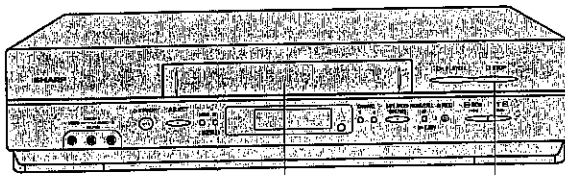
Video tape must be loaded.   ❶

[Front]

Cassette compartment (see **Playback, Recording**)

SHARP

▷ PLAY/X2 ☐ STOP

STANDBY &EJECT &MENU-SET CHANNEL TAPE SPEED PAGE/STILL ● REC ⊟ REW FF ⊟

STANDBY button
EJECT button

Basic function controls (See **Playback, Recording.**)
Channel tuning controls (See **Setting the Channels.**)
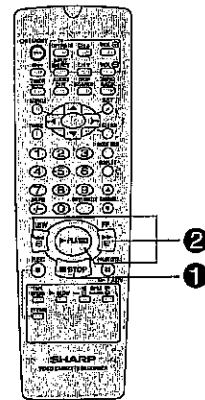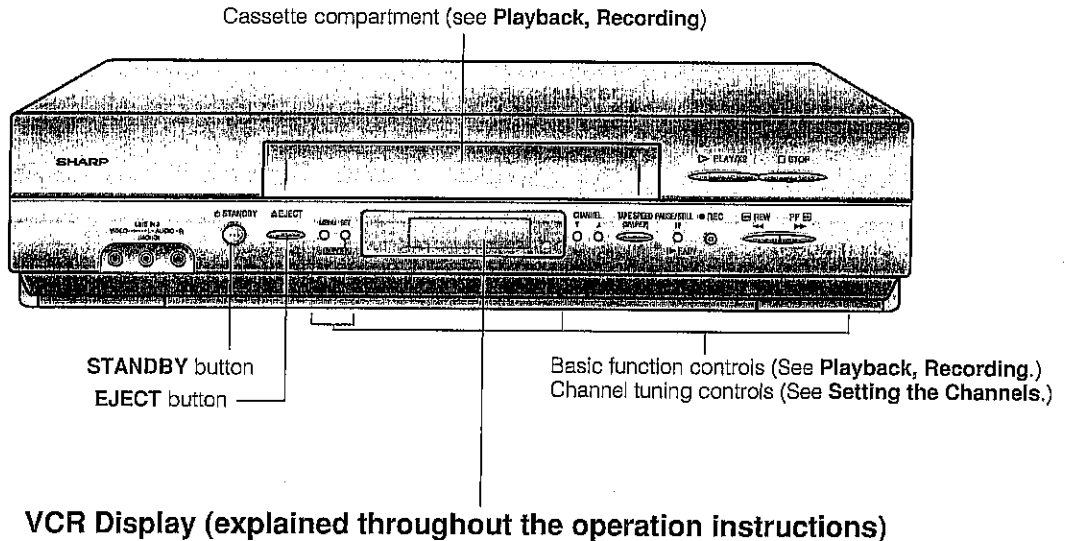
VCR Display (explained throughout the operation instructions)

NOTE ▷
• Tape counter is displayed during playback, fast forward, rewind or recording.
• When the VCR is on, the LCD backlight will light up.
• When the power is turned off, the clock is displayed and the LCD backlight will light off.

The meaning of the main indicators is shown below. (This list does not include all indicators.)

⟨⟨⟩⟩	Cassette-In Indicator	- ⟨⟨⟩⟩ -	Rec Pause	〔L〕〔R〕	Audio Output mode
⟨⟨⟩⟩ {Rotate slowly}	Playback	- ⟨⟨⟩⟩ -	Slow, Still, Frame Advance	L1/L2	LINE IN 1/2
⟨⟨⟩⟩ {Rotate rapidly}	Rewind, Video Search Rewind	SHARP	When AC power cord is first plugged in.	3 7RF	RF Output Channel
⟨⟨⟩⟩ {Rotate rapidly}	Fast Forward, Video Search Forward	⟨⟨⟩⟩	Stop		
⟨⟨⟩⟩ {Rotate slowly}	Record	☐⟲	New Child-Proof lock		

NOTE ▷
• The display will return to channel setting mode when **STOP** is pressed during operation mode.
• The display changes each time **DISPLAY** on the remote control is pressed. (See page 32.)
• Some of the indicators above will light up only for a couple of seconds when the VCR is set up the corresponding mode.

[Rear]

Connection terminals (See **Connections** on page 8.)
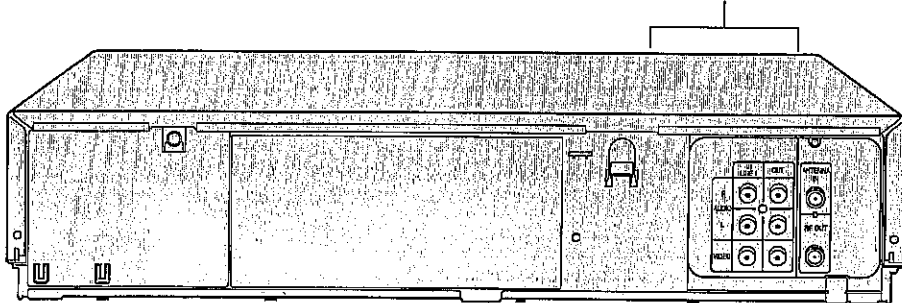
Remote Control
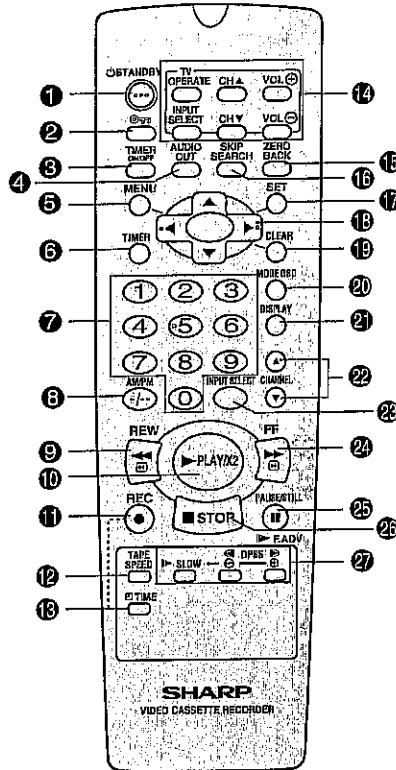
❶ STANDBY button
❷ ⊙🖵 button
   (New Child-Proof Lock)
❸ TIMER ON/OFF button
❹ AUDIO OUT button
❺ MENU button
❻ TIMER button
❼ Numeric buttons
❽ AM/PM button
   Digit select (When inputting up to
   two digit numbers)
❾ REW button
❿ PLAY/×2 button
⓫ REC button
⓬ TAPE SPEED button
⓭ ⊡ TIME button

⓮ TV functions control buttons
   (TV OPERATE, CH ▲ / ▼,
   VOL ⊕/⊖ and INPUT SELECT)
   • This remote control can control
     Sharp's TVs.
⓯ ZERO BACK button
⓰ SKIP SEARCH button
⓱ SET button
⓲ ◄ / ► / ▲ / ▼ button
⓳ CLEAR button
⓴ MODE OSD button
㉑ DISPLAY button
㉒ CHANNEL ▲ / ▼ button
㉓ INPUT SELECT button
㉔ FF button
㉕ PAUSE/STILL (F. ADV) button

㉖ STOP button
㉗ SLOW/⊕/⊖ buttons (SLOW ⊕/⊖,
   DPSS ▷/◁)

Inserting the Batteries

First, install the batteries properly. Fit two R6 (UM/SUM-3, AA) 1.5 volt batteries
(included) or equivalent. If the remote control stops working, insert new batteries.

Ensure the batteries are inserted correctly, matching the polarities (⊕/⊖) indicated
in the remote control.
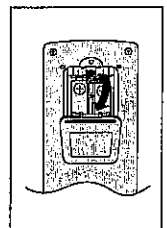
NOTE ►
• Do not subject the remote control to shock, water or excessive humidity.
• The remote control may not function if the VCR sensor is in direct sunlight or any other strong light.
• Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
• Do not mix old and new batteries or mix brands in use.
• Remove the batteries if you will not use the remote control for an extended period of time.

Connections

1 Disconnecting TV Cable
Disconnect the aerial cable from the back of your TV set.

2 Connecting Aerial Cable to VCR
Connect the aerial cable to the **ANTENNA IN** terminal of your VCR.
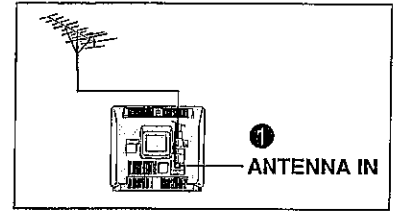
ANTENNA IN

3 Connecting VCR to TV
Connect the supplied coaxial cable to the **RF OUT** terminal of the VCR. Plug the other end into your TV's **ANTENNA IN** terminal.

ANTENNA IN

TV back panel
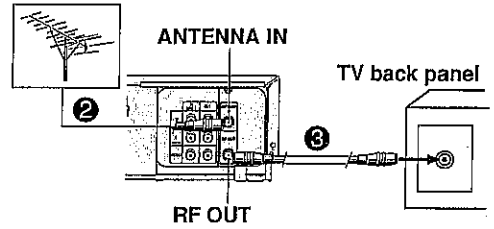
RF OUT

Connecting to a Stereo TV
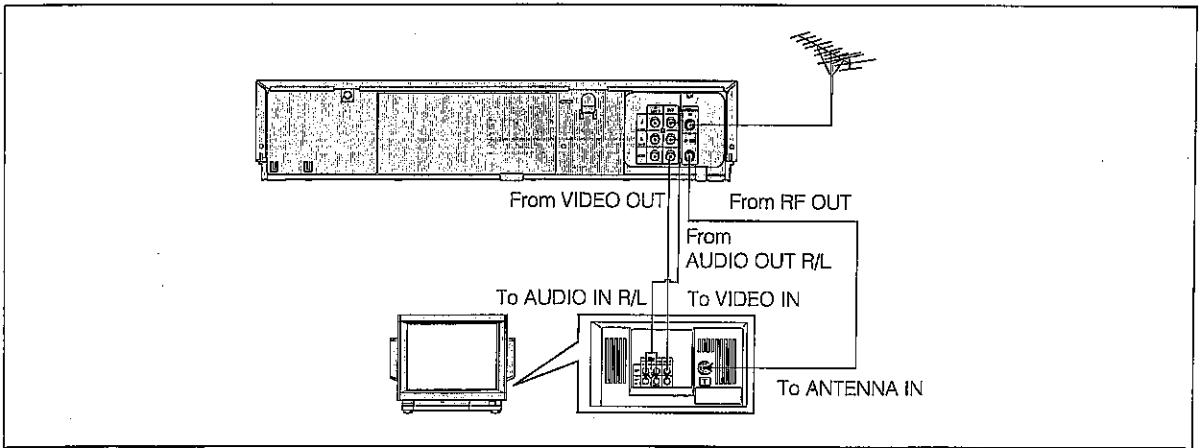
From VIDEO OUT From RF OUT

From AUDIO OUT R/L

To AUDIO IN R/L To VIDEO IN

To ANTENNA IN

NOTE
• Stereo sound output is only possible using the AUDIO OUT terminals. Sound from the radio frequency converter (RF OUT) is mono only.
• The power cord should not be plugged into the power outlet until the above connections have been completed.
• If TV reception is weak, use a TV signal booster (not supplied).

Connecting to TV and Audio Equipment

From RF OUT

From VIDEO OUT From AUDIO OUT R/L

To AUDIO IN R/L

Amplifier

To ANTENNA IN To VIDEO IN

8
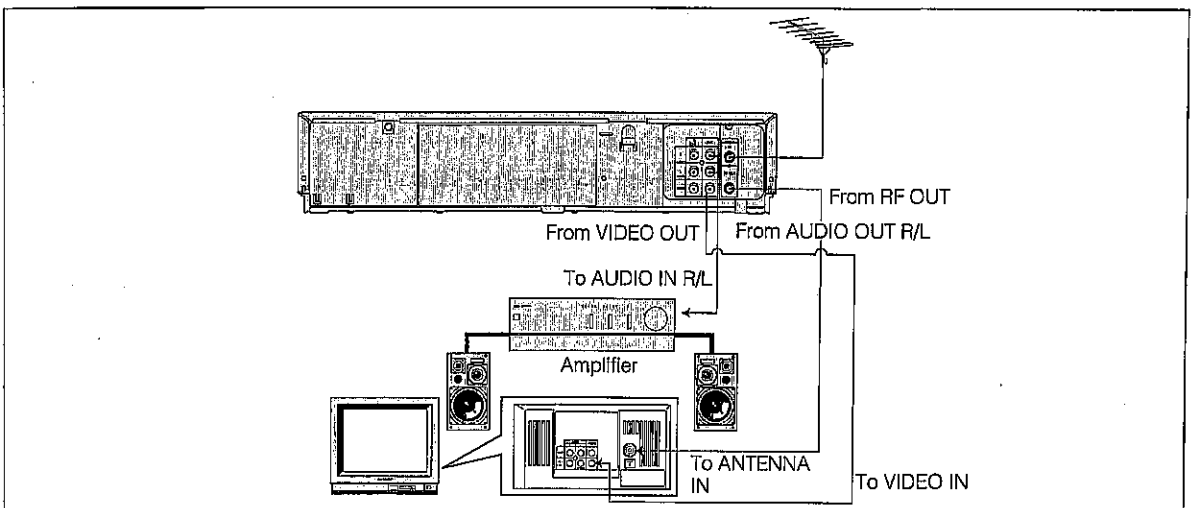
Adjusting the Video Channel

To view the output of your VCR on the television screen, you must select an unused channel on your TV and tune it to the output of your VCR (factory preset to UHF channel 37).

❶ Turn on the TV, select the AV channel or an unused channel on the TV and turn on the VCR.
❷ Load a prerecorded tape (not supplied) into the VCR.
❸ If the erasure protection tab on the tape is removed, the VCR will automatically playback the tape. Otherwise press **PLAY/×2**.
❹ Tune the selected channel on the TV until the picture from the VCR is displayed on the TV screen. (This TV channel must be selected each time the VCR is used.)

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* If picture interference appears on the TV screen in step ❹ above, you can change the video channel (RF output channel from the VCR) with the following procedure. (If UHF channel 37 is an active broadcast channel in your area, manually select a different channel (UHF 28 to UHF 69) (see below) and then retune your TV as above.)

(A) Press **STANDBY** on the VCR or the remote control. The VCR enters POWER STANDBY mode.
(B) Keep pressing **MENU** for more than two seconds to light up the ⌐⌐ ⌐⌐ ⌐ on the VCR display.
(C) Press **CHANNEL ▲/▼** on the VCR or ▲/▼ of ◂⁚▸ on the remote control to manually select an unused channel for use as the video channel, then press **SET**.
(D) Repeat steps ❶ to ❹ above using the newly selected video channel.

9
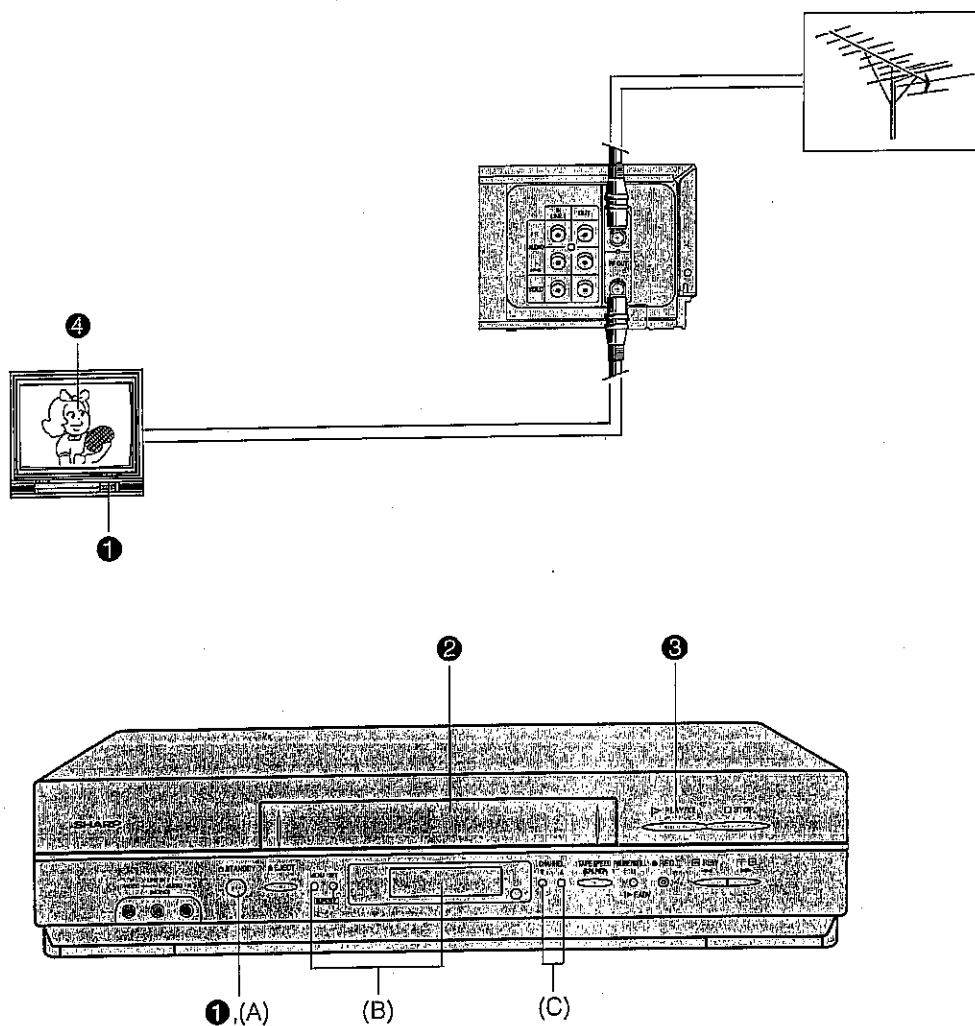
Menu Screen

MENU screen is a home screen used to select various screen functions. A sub-menu will appear once you select an item for the menu.

❶ Turn on your TV and select the video channel.
❷ Turn on the VCR.
❸ Press **MENU** to display the MENU screen.
❹ Select the item you want by pressing ▲ or ▼ on the remote control. Refer to the pages listed below for details on each item.

The following 5 items can be set by using the On Screen Display (OSD).

```
              MENU
TIMER
MODE
CHANNEL PRESET
CLOCK
LANGUAGE

▲ ▼:SELECT
SET:ENTER      MENU:EXIT
```

1: TIMER .... Setting a timer recording (and checking it). (See page 25 for the setting procedure.)
2: MODE .... VCR operating conditions are set according to the broadcast reception and tape playback conditions. (See page 16.)
3: CHANNEL PRESET ...... Setting the channels. (See page 13.)
4: CLOCK .... Setting the present time. (See page 12.)
5: LANGUAGE .... Selection of language to be used for the On Screen Display. (See page 11.)

❺ Press **SET**. The screen changes to the item which you have selected.
❻ To cancel the MENU screen, press **MENU**.

OSD (On Screen Display)

The tape counter and VCR mode can be shown on the screen while you are playing back a tape or watching a broadcast on the video channel.

Display example

Sharp Super Picture

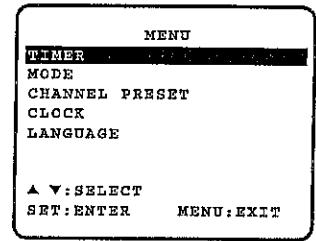| ▶	PLAY, X2
▶▶	VSF, FF
◀◀	VSR, REW
■	STOP, CASSETTE IN
II▶	F. ADV
II▶	SLOW
II	STILL
●	REC
●II	REC PAUSE

Operating mode
Tape speed
Simple
Recording timer
Clock display
Calendar display

```
S.PICTURE ON                        1
      ⊡START 11:00M STEREO
-SP | STOP  11:30M    L R
REPEAT
-12:30AM        |REM 1:05|
|21/08 03|          0:00.00
```

Programme channel position
Audio System (STEREO)
Audio output indicator
Auto Repeat display
Tape remaining (or DPSS)
Real time counter

| DPSS · | | DPSS | 1 9 |

NOTE ▶

• If REPEAT mode has been set to ON, "REPEAT" will be displayed on the TV screen. Select display off mode for the OSD or turn REPEAT mode to OFF (see page 29) to remove indication from the screen.

How to Display Indicators

❶ Turn on your TV and select the video channel.
❷ Turn on the VCR. Mode indicators are displayed in the AUTO display screen.
❸ Each time **MODE OSD** is pressed, the screen changes as follows:

❶ AUTO Display ⟶ ❷ FULL Display ⟶ ❸ COUNTER Display ⟶ ❹ Display off

AUTO Display

When each of the operation buttons, numeric buttons or **CHANNEL ▲/▼** is pressed, the current mode or the number of the channel will be displayed in the upper section of the TV screen for about 3 seconds.

NOTE ▶

• When you record a video signal output from this VCR on another VCR, press **MODE OSD** to select Display Off. (If the mode indicator is displayed on the screen, it is also recorded on the tape.)

Setting the Language
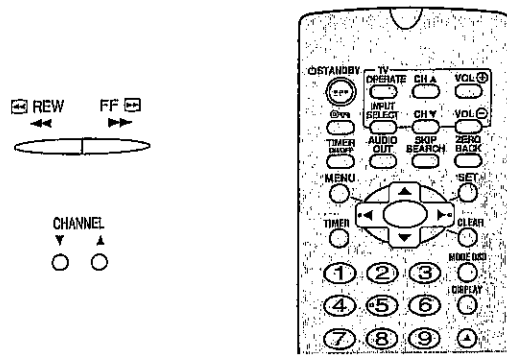
PREPARATION
• Select the video channel on your TV and turn power ON the VCR.
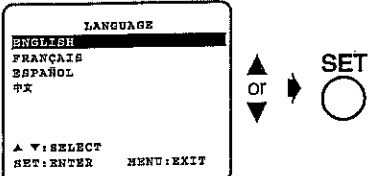
• While in MENU, the **CHANNEL ▲/
CHANNEL ▼/REW◀◀/FF ▶▶** on
the VCR operates the following
functions (same functions on the
remote control):
**CHANNEL ▲ → ▲
CHANNEL ▼ → ▼
REW ◀◀ → ◀
FF ▶▶ → ▶**
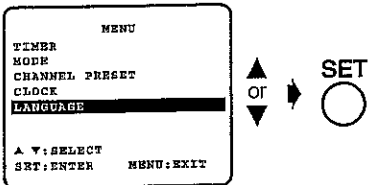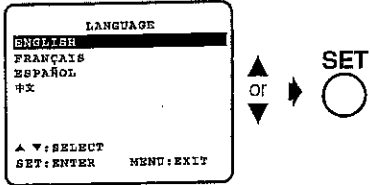
Initial Setting of Language

① Select the language with ▲/▼ and press **SET**.
Ex.: ENGLISH

NOTE
• Refer to page 12 to set the clock.

Changing Language
• If the language has already been set previously and you want to change it, follow the steps below.

① Press **MENU**.
Select item "LANGUAGE" with ▲/▼ and press **SET**.

② Select the language with ▲/▼ and press **SET**.
Ex.: ENGLISH

③ To return to the normal screen, press **MENU**.

MENU ▶ Normal
Screen

11

Setting the Clock

When you use the VCR for the first time or after a power failure of more than 60 minutes the clock have to be reset. Apply power to the unit to switch it on. Then perform the following procedure.

PREPARATION
* Select the video channel on your TV and turn on the VCR.

STANDBY

MENU ——————— SET
▲/▼/◄/►

Numeric buttons

AM/PM

Initial Setting of Clock

● First set the language (refer to page 11). Then press **SET**.

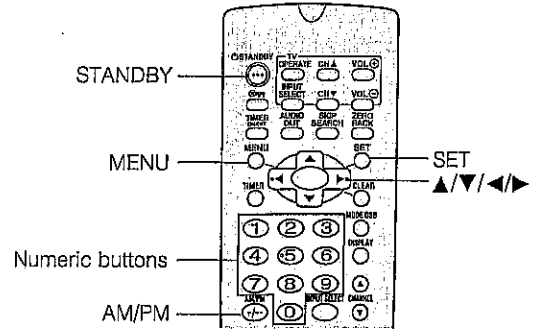|		❷ Select whether the clock should show 12-hour AM/PM time or 24-hour time by pressing ▲/▼ and then press ►. *Ex.: 12H* **NOTE** ● "24H" .... 24-hour display. ● "12H" .... 12-hour AM/PM display. ● 12H (AM/PM) mode is preset at the factory.
▲ or ▼	CLOCK MODE TIME DATE YEAR 12H 12:00M 1/01 00 MODE:24H/12H ◄ ►:SELECT ▲ ▼ :CHANGE SET:ENTER MENU:EXIT	
Numeric buttons or ▲/▼	CLOCK MODE TIME DATE YEAR 12H 10:28M 1/01 00 ◄ ►:SELECT ▲ ▼ :CHANGE SET:ENTER MENU:EXIT	❸ Set the present time with the numeric buttons or ▲/▼ on the remote control. (First set the 'hour' digits and then the 'minute'. If there is only one 'hour' or one 'minute' digit, enter a 0 first.) Set AM or PM, using **AM/PM** (12 hour) and then press ►. *Ex.: 10:28AM* **NOTE** ● If 12H mode was selected, then set the AM/PM indicator.
Numeric buttons or ▲/▼	CLOCK MODE TIME DATE YEAR 12H 10:28M 15/12 00 DATE :DAY/MONTH	❹ Set the date with the numeric buttons or ▲/▼ on the remote control. (First set the 'day' digits and then the 'month'. If there is only one 'day' or one 'month' digit, enter a 0 first) and then press ►. *Ex.: 15/12 (Dec. 15)*
Numeric buttons or ▲/▼	CLOCK MODE TIME DATE YEAR 12H 10:28M 15/12 03	❺ Set the year digits with the numeric buttons or ▲/▼ on the remote control. (Enter the last two digits of the year.) *Ex.: 03 (2003)*
SET ○ ►	Normal Screen	❻ Press **SET** button to return to the normal screen.

Changing the Clock Setting

MENU ○ ►	MENU G-CODE TIMER MODE CHANNEL PRESET CLOCK LANGUAGE ▲ ▼:SELECT SET:ENTER MENU:EXIT	▲ or ▼ ►	SET ○	● Press **MENU**. Select item "CLOCK" with ▲/▼ and press **SET**. ❷-❺ Follow steps ❷ through ❺ above and step ❻ below.
SET ○ ►	MENU ○ ►	Normal Screen		❻ Press **SET**. To return to the normal screen, press **MENU**.

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Setting the Channels

Your VCR can receive VHF channels 0 to 12 and UHF channels 28 to 69. Your VCR has 48 programmable channel positions, each of which can be set to any of the above broadcast channels. The channel positions have been preset at the factory as shown below.

Position	Preset TV Channel	Position	Preset TV Channel
0	Skipped channel	8	Skipped channel
1	Skipped channel	9	VHF 9
2	VHF 2	10	VHF 10
3	Skipped channel	11-27	Skipped channels
4	Skipped channel	28	UHF 28
5	Skipped channel	29-46	Skipped channels
6	Skipped channel		
7	VHF 7	47	Skipped channel

NOTE
- Use the ▲ / ▼ / ◄ / ► buttons on the remote control to set the OSD.
- Channel position numbers 0, 1, 3 to 6, 8, 11 to 27, and 29 to 47 have been factory set to be skipped when **CHANNEL ▲** is used.
- If the picture is not clear, if you want a different channel from the one preset or if you wish to reset a skipped channel, reset the channel as follows.

AUTO TUNING

PREPARATION
- Select the video channel on your TV and turn on the VCR.

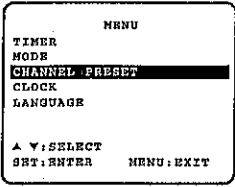|			
MENU ○ ►	MENU TIMER MODE CHANNEL PRESET CLOCK LANGUAGE ▲ ▼:SELECT SET:ENTER MENU:EXIT	▲ or ▼ ► **SET** ○	❶ Press **MENU**. Select item "CHANNEL PRESET" with ▲/▼ and press **SET**.
▲ or ▼	CHANNEL PRESET AUTO MANUAL ' ▲ ▼:SELECT SET:ENTER MENU:EXIT	► **SET** ○	❷ Select item "AUTO" with ▲/▼ and press **SET**.
	AUTOMATIC TUNING. PLEASE WAIT. ■---------------- MENU:EXIT	► **Normal Screen**	❸ The channel display on the TV screen will continue through all of the channels and when finished, the TV screen will return to the normal screen. The bar display indicates the estimated amount of channels tuned.
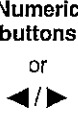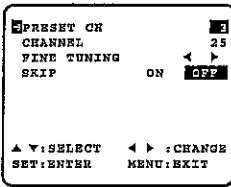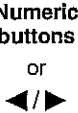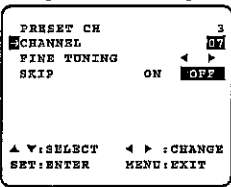
NOTE
- If additional unwanted channels were found, refer to page 15 to skip unwanted channels.
- If some channels were unable to be found, refer to **Manual Tuning** on page 14.

MANUAL TUNING

PREPARATION

• Select the video channel on your TV and turn on the VCR.

Example: Tuning Broadcast TV Channel 7 to preset Channel 3.

MENU ◯ ▶ [MENU screen: TIMER / MODE / CHANNEL PRESET / CLOCK / LANGUAGE / ▲▼:SELECT / SET:ENTER MENU:EXIT] ▲ or ▼ SET ▶ ◯	**①** Press **MENU**. Select item "CHANNEL PRESET" with ▲/▼ and press **SET**.
[CHANNEL PRESET screen: AUTO / MANUAL / ▲▼:SELECT / SET:ENTER MENU:EXIT] ▲ or ▼ SET ▶ ◯	**②** Select item "MANUAL" with ▲/▼ and press **SET**.
[Preset CH] Numeric buttons or ◀/▶ [screen: PRESET CH / CHANNEL 25 / FINE TUNING ◀ ▶ / SKIP ON OFF / ▲▼:SELECT ◀ ▶ :CHANGE / SET:ENTER MENU:EXIT] ▶ ▼	**③** Select the preset channel position number with the numeric buttons or ◀/▶ and then press ▼.
[Broadcast CH] Numeric buttons or ◀/▶ [screen: PRESET CH 3 / CHANNEL 07 / FINE TUNING ◀ ▶ / SKIP ON OFF / ▲▼:SELECT ◀ ▶ :CHANGE / SET:ENTER MENU:EXIT] ▶ ▼	**④** Press the numeric buttons or ◀/▶ until you see the desired broadcast channel on your TV and then press ▼. **NOTE** • When Digit select is set to two digit input, and the channel number is only one digit, enter "0" first.
[Fine tuning] [screen: PRESET CH 3 / CHANNEL 07 / FINE TUNING ◀ ▶ / SKIP ON OFF / ▲▼:SELECT ◀ ▶ :CHANGE / SET:ENTER MENU:EXIT] ◀ or ▶	**⑤** For fine tuning, press ◀/▶ until the broadcast channel comes in clearly on your TV.
SET ◯ ▶ Next Screen	**⑥** Press **SET**. If you wish to preset more channels, repeat steps **③** through **⑤**.
MENU ◯ ▶ Normal Screen	**⑦** To return to the normal screen, press **MENU**.

NOTE
• Numeric buttons on the remote control can also be used to select channel numbers. Press -/-- to switch between one and two digit numbers for step **③**.
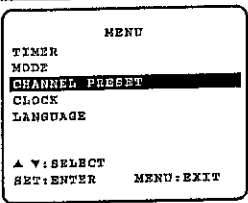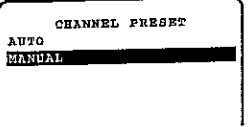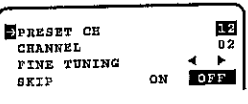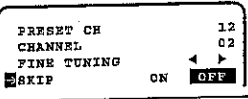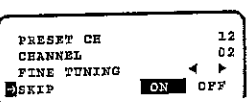
Channel skip

If there are channel positions that are not preset, you can skip them with the following procedure.

PREPARATION
• Select the video channel on your TV and turn on the VCR.

Example: Skip channel position 12.

MENU MENU TIMER MODE CHANNEL PRESET CLOCK LANGUAGE ▲ ▼:SELECT SET:ENTER MENU:EXIT ▲ or ▼ SET	❶ Press **MENU**. Select item "CHANNEL PRESET" with ▲/▼ and press **SET**.
▲ or ▼ CHANNEL PRESET AUTO MANUAL SET	❷ Select item "MANUAL" with ▲/▼ and press **SET**.
◀/▶ or (Numeric buttons) PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF	❸ Set the channel position you wish to skip with ◀/▶ (or numeric) buttons. Ex.: 12
▲ or ▼ PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF	❹ Select SKIP setting mode with ▲/▼.
◀ or ▶ PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF SET	❺ Press ◀/▶ to select SKIP ON and press **SET**. ❻ If you wish to set more channels to be skipped, repeat steps ❸ through ❺.
MENU ▸ Normal Screen	❼ To return to the normal screen, press **MENU**.

Cancelling skip

PREPARATION
• Select the video channel on your TV and turn on the VCR.

Example: Reset channel position 12.

• Follow the same procedures ❶, ❷ in **Channel skip** and then the procedures ❸-❼ below.
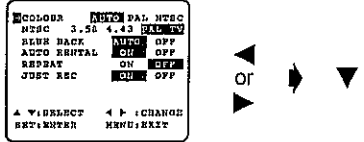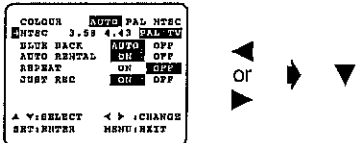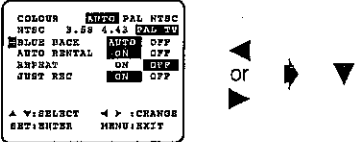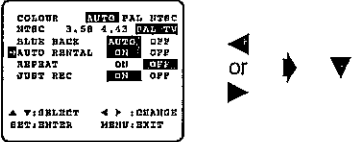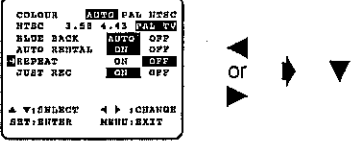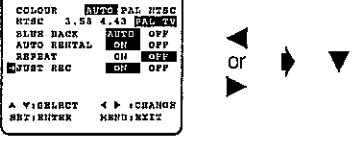
◀/▶ or (Numeric buttons) PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF	❸ Select the channel position you wish to unskip with the numeric or ◀/▶ buttons. Ex: 12
▲ or ▼ PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF	❹ Select SKIP setting mode by pressing ▲/▼.
◀ or ▶ PRESET CH 12 CHANNEL 02 FINE TUNING ◀ ▶ SKIP ON OFF SET	❺ Press ◀/▶ to select SKIP OFF and press **SET**. ❻ If you wish to unskip more channels, repeat steps ❸ through ❺.
MENU ▸ Normal Screen	❼ To return to the normal screen, press **MENU**.

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Mode Selection

You can set the basic functions listed in the table below on the MODE selection screen.

PREPARATION
• Turn on your TV and select the video channel and turn on the VCR.

MENU ○ ▶ ▲ or ▼ [MENU screen: TIMER / MODE / CHANNEL PRESET / CLOCK / LANGUAGE ▲ ▼:SELECT SET:ENTER MENU:EXIT] ▶ SET ○	❶ Press **MENU**.
	❷ Select the MODE selection mode with ▲/▼ and then press **SET**.
[COLOUR] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❸ Select the COLOUR mode by pressing ◀/▶ and then press ▼. (For details, see **Colour Mode** on page 18.) AUTO ..... Usually select AUTO mode. PAL .... Strict PAL colour mode. NTSC ..... Strict NTSC colour mode.
[NTSC mode] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 PAL TV / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❹ Select the NTSC mode by pressing ◀/▶ and then press ▼. (For details, see **NTSC AV Recording** on page 23.) NTSC 3.58 .... When using NTSC 3.58 TV system format. (Input signal: NTSC 3.58) NTSC 4.43 .... When using NTSC 4.43 TV system format. (Input signal: NTSC 4.43) PAL TV .... When using PAL TV system format. (Input signal: NTSC 4.43)
[BLUE BACK] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 PAL TV / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❺ Select the BLUE BACK mode by pressing ◀/▶ and then press ▼. (For details, see **Blue Back** on page 19.) AUTO ..... Usually select AUTO. A blue screen will appear when your VCR receives no TV signal or an unrecorded tape is played back. OFF .... Select OFF if the screen turns blue due to weak TV signal reception or playback of a poorly recorded tape.
[AUTO RENTAL] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 PAL TV / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❻ Select the AUTO RENTAL mode by pressing ◀/▶ and then press ▼. (For details, see **Auto Rental Mode** on page 19.)
[REPEAT] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 PAL TV / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❼ Select the REPEAT mode by pressing ◀/▶ and then press ▼. (For details, see **Auto Repeat** on page 29.)
[JUST REC] [screen: COLOUR AUTO PAL NTSC / NTSC 3.58 4.43 PAL TV / BLUE BACK AUTO OFF / AUTO RENTAL ON OFF / REPEAT ON OFF / JUST REC ON OFF ▲ ▼:SELECT ◀ ▶:CHANGE SET:ENTER MENU:EXIT] ◀ or ▶ ▶ ▼	❽ Select the JUST REC mode by pressing ◀/▶ and then press ▼. (For details, see **Intelligent Timer Recording (JUST REC)** on page 28.)
SET ○ ▶ MENU ○ ▶ Normal Screen	❿ Press **SET**. To return to the normal screen, press **MENU**.

◙ Playback

Inserting a Video Cassette

Gently insert the video cassette into the cassette compartment. The VCR turns on automatically. If the cassette is inserted incorrectly, the loading system will not function. Do not force the cassette into the VCR. When the cassette has been properly loaded, "⟨○○⟩" appears on the VCR display.
To remove the cassette, press **EJECT** during stop mode.

Playback

PREPARATION
• Turn on your TV and select the video channel.

Insert a cassette. PLAY/X2

EJECT
STANDBY

STOP

PLAY/×2
REW — FF
STOP
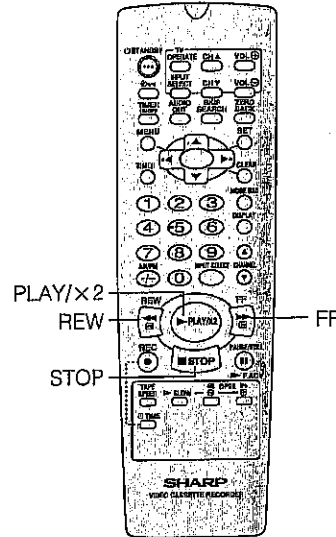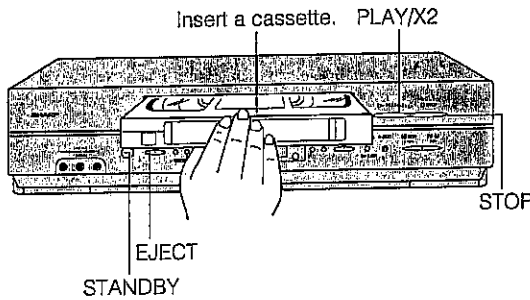
❶ Turn on the VCR.
❷ Insert a cassette.
❸ Press **PLAY/×2**. (The auto tracking control system engages and " ▶ " flashes on the TV screen for a few seconds.)
❹ To stop playback, press **STOP**. (If the tape reaches its end, the VCR will automatically rewind the tape to the beginning, turn off the power and eject the tape.)

NOTE ▷
• NTSC tapes recorded in Hi-Fi and EP mode may appear distorted during playback. This does not indicate a malfunction. The tracking function can be used to slightly enhance the picture quality.

Notes for S-VHS tape
• Playback of S-VHS recorded tapes is possible.
• Playback of S-VHS image quality is not available.
• Picture noise or distortion may appear on the screen during playback in the SLOW or STILL mode.
• S-VHS recording is not available. However, HQ recording is possible with S-VHS tape.

Video Search

Use the following procedure to quickly find the section you want, while viewing the picture.

❶ During playback, press **FF** for forward video search or **REW** for reverse search.

		Faster Video Search	Slower Video Search
PAL TAPE	SP	×9	×5
	LP	×11	×5
	EP	×27	×9
NTSC TAPE	SP/LP	×7	×5
	EP	×21	×9

There are 2 search speeds in each direction. The VCR switches between them each time the button is pressed.
❷ Press **PLAY/×2** to resume normal playback.

NOTE ▷
• During video search of a tape recorded in the LP mode and EP mode, the upper part of the picture may be skewed to one side.

Fast Forwarding and Rewinding

❶ To move through the cassette faster, press **STOP** and then press **FF** or **REW** to fast forward or rewind the cassette. (The picture cannot be viewed in this mode.)
❷ Press **STOP** to stop fast forward or rewind.

NOTE ▷
• If you use other than E-90/E-180 cassettes, fast forward and rewind may take somewhat longer.

Slow Motion Playback (with the Remote Control)

◄ DPSS ►
▶SLOW — ⊖ — ⊕
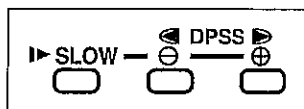
① Press **SLOW** on the remote control during playback.
② Press **SLOW** ⊕ or ⊖ (to the right of **SLOW**) to vary the slow motion playback speed between ⅕ and ¹⁄₃₀ of the normal playback speed.
③ Press **PLAY/X2** to resume normal playback.

NOTE ▶
• No noise can be erased when a tape recorded in the NTSC SP mode is played back in special modes (still picture, slow motion, etc.). However, this does not indicate a malfunction with the VCR.
• During slow motion, still picture, frame advance and double speed playback with a tape recorded in the PAL EP mode, noise may appear.
• When playback a tape recorded in the PAL EP mode during slow motion, auto tracking function is prohibited in use.

Still Picture and Frame Advance

① Press **PAUSE/STILL (F.ADV)** during playback. This will freeze the picture on your TV.
② If noise bars appear on the screen during still picture, set your VCR to the slow mode and press **CHANNEL** ▲/▼ to make the noise disappear. Then press **PAUSE/STILL (F.ADV)** again.
③ If there is vertical jitter during Still Picture Playback, press **CHANNEL** ▲/▼ to stop the jitter.
④ Press **PAUSE/STILL (F.ADV)** during still mode for frame advance.
⑤ Press **PLAY/X2** again to resume normal playback.

Double Speed Playback

① Press **PLAY/X2** during playback. The tape will be played back at twice the normal speed.
② Press **PLAY/X2** to resume normal playback.

NOTE ▶
• Sound is muted during video search, slow motion, still picture, frame advance and double speed playback.
• To avoid damage to the tape, your VCR will resume normal playback after about 5 minutes of slow motion playback and still picture.
• During slow motion, still picture, frame advance and double speed playback with a tape recorded in the LP/EP mode, the upper part of the picture may be skewed to one side.
• During Standard Play (SP), video search, slow motion, still picture, frame advance and double speed playback, some picture noise will remain.

Colour Mode

If a colour recording's quality is poor, the picture may turn black and white. In this event, set the COLOUR mode on the MODE selection screen to "PAL" (strict PAL colour mode) or "NTSC" (strict NTSC colour mode). Normally, the colour mode should be set to "AUTO".
(See **Mode Selection** on page 16.)

NOTE ▶
• When the colour mode is set to fixed colour mode while the VCR is playing back a black and white tape or is receiving a black and white broadcast, the picture may be coloured. In this event, set the COLOUR mode on the MODE selection screen to "AUTO".

```
 COLOUR      AUTO  PAL  NTSC
 NTSC    3.58  4.43  PAL TV
 BLUE BACK      AUTO    OFF
 AUTO RENTAL    ON     OFF
 REPEAT         ON     OFF
 JUST REC       ON     OFF


 ▲ ▼:SELECT    ◄ ►  :CHANGE
 SET:ENTER     MENU:EXIT
```
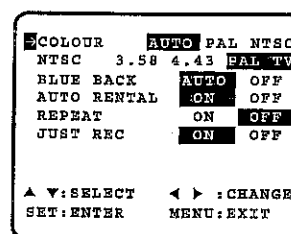
(Change with ◄ or ►.)
Then press **SET**.

NTSC Tape Playback on PAL TV

When you playback an NTSC tape on your VCR, it is possible to use a PAL or multi-system compatible TV. However, please note the following:
• The picture will shrink vertically to some degree, as shown in the diagram, but this does not indicate a malfunction in your TV or VCR.
• If your TV does not have a V-HOLD control, the picture may roll and be unwatchable. However, if you use a TV with a V-HOLD control, you can stop the rolling by adjusting the V-HOLD control and watch the picture.
• Horizontal noise bars may appear on the screen during special effect playback (video search, still, slow, frame advance, and double speed playback), possibly accompanied by discolouring.
• Although NTSC tapes can be played back into a PAL TV, those tapes cannot be dubbed by a PAL system VCR connected to the AUDIO OUT and VIDEO OUT terminals of this product. Tapes recorded in this way cannot be played back on PAL system VCRs.
• Set the COLOUR mode to AUTO. If the COLOUR mode is set to PAL, you cannot playback the tape.

Auto Tracking Control System

This function automatically adjusts the tracking to match the recorded tape. Auto tracking engages in the following cases:
• When you insert the cassette and begin playback.
• When you press CHANNEL ▲ and ▼ at the same time.
• When the VCR has been playing back an unrecorded section of tape and then reaches a recorded tape segment.
When auto tracking engages, " ▶ " on the TV screen flashes for a few seconds.

Poor tracking   Normal tracking
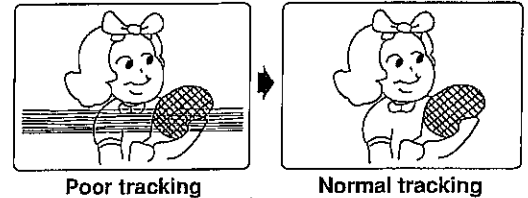
NOTE ▶
• When a poorly recorded tape is played back, auto tracking may not operate normally. In this event, manually adjust the tracking with CHANNEL ▲/▼ to make any noise disappear.

Auto Head Cleaning System

When the tape is inserted or ejected, this system automatically cleans the drum and heads with a special roller before recording or playback begins, protecting the heads and drum from dirt and preserving beautiful picture quality.

Quick Start with Full Loading Mechanism

Your VCR has a standby function (Full Loading Mechanism) to allow immediate recording and playback.
After pressing REC or PLAY/X2, it takes about 2 seconds until recording or playback is engaged when in the standby mode.

Auto Rental Mode

(This function only works when AUTO RENTAL mode on the MODE selection screen is set to ON.)
The convenient auto rental mode lets you enjoy playback with ease. When you insert a cassette with the erasure protection tab removed (rental videos, etc.), your VCR automatically turn on the power, rewind the tape forward to find the recorded section and playback the tape. When the tape reaches the end of recorded section, the VCR automatically rewind the tape, turn off the power and eject the tape.

NOTE ▶
• If there is more than a 15 second unrecorded section between recorded sections, the tape will automatically stop and rewind. To watch the next recorded section, press STOP fast forward to that section and play the tape.
• If the erasure protection hole is covered, press PLAY/×2 after the power turns on automatically. (Auto Rental Mode does not work.)
• If Auto Rental and Repeat (Auto Repeat) modes on the MODE selection are set to ON simultaneously, Auto Rental will not function. (If this happens, set Repeat (Auto Repeat) mode to OFF.)
• The AUTO REPEAT mode has priority over the AUTO RENTAL mode. If the AUTO REPEAT mode is set to ON and the video cassette reaches its end, the VCR will rewind the tape and play it back again without ejecting the tape or turning off the POWER.

Blue Back

Set the BLUE BACK mode to AUTO on the MODE-selection screen. (See Mode Selection on page 16.) This function eliminates monitor noise and mutes sound during playback of unrecorded portions of a tape and when receiving a non-broadcasting channel. A blue screen will also appear if the VCR is set to the Auxiliary input (LINE IN) mode but no video signal is fed to the VCR. (The BLUE BACK mode is set to AUTO at the factory.)

NOTE ▶
• Blue Back does not function during still picture, variable slow motion and video search.
• Blue Back may not function properly if the broadcast signal is too strong or too weak.
• Blue Back cannot be recorded.
• If the antenna signal is weak while recording a TV programme, or if the input signal is weak while tape dubbing, the monitor screen may turn blue back since the unit may not recognize whether or not a proper signal is being received. In this event, set the BLUE BACK mode to OFF.

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Full Auto Playback

(This function only works when AUTO RENTAL mode on the MODE selection screen is set to OFF.)
Full Auto Playback lets you enjoy playback with ease. When you insert a cassette with the erasure protection tab removed, your VCR automatically turn on the power and playback the tape. When the tape reaches its end, the VCR automatically rewind the tape, turn off the power and eject the tape.

NOTE
• If the erasure protection hole is covered, press **PLAY/×2** after the power turns on automatically.

Playback of Hi-Fi Recorded Tapes

This VCR will playback both video and audio-only tapes recorded in the Hi-Fi mode.

NOTE
• Stereo sound output is only possible using the AUDIO OUT terminals. Sound from the radio frequency converter (RF OUT) is mono only. A blue screen will appear if audio-only Hi-Fi tapes are played back.

Audio Output Mode

The audio output mode is controlled by **AUDIO OUT** on the remote control. The VCR is normally set to the Hi-Fi mode, with **L** and **R** displayed on the On Screen Display (OSD), and normal stereo sound output.
Select **L**, and only the Hi-Fi Left channel audio is heard from both the Right and Left speakers.
Select **R**, and only the Hi-Fi Right channel audio is heard from both the Right and Left speakers.
If you select the mono linear track, **L** and **R** will disappear.

NOTE
• Should the Hi-Fi output level be poor, the VCR will automatically select the mono linear track output.
• When playing back tapes which have only Hi-Fi sound recorded: if Hi-Fi sound is not reproduced, or if there is some noise in the audio, press **CHANNEL ▲** or **▼** until the sound improves.

Adjusting Hi-Fi Audio Tracking

(To adjust the Hi-Fi tracking manually when playing back a poorly recorded Hi-Fi tape)
• Normally you can simultaneously press and hold both **CHANNEL ▲** and **▼** to obtain the optimal Hi-Fi audio tracking.
• If Hi-Fi audio is unstable (frequent dropouts, etc.) with a rental video, a tape recorded on another VCR, restore normal tracking while playing back the tape as described below:

❶ Press **MODE OSD** and select the Full Display mode. (See page 10.)
❷ Simultaneously press **CHANNEL ▲** and **▼**.
❸ Press **CHANNEL ▼** repeatedly at equal, short intervals until the **L** and **R** indicators disappear from the On Screen Display (OSD).
❹ Press **CHANNEL ▲** in the same manner while counting button operations until the **L** and **R** indicators reappear and then disappear again.
❺ Press **CHANNEL ▼** again for half the number of times counted in step ❸ above to obtain optimal tracking.

Recording a TV Programme

Cassette Erase Protection

A VHS cassette has a removable tab to prevent accidental erasure of recorded material. Removing the tab prevents recording. To record on a video cassette with the tab removed, place adhesive tape over the tab opening.

ERASURE
PROTECTION TAB
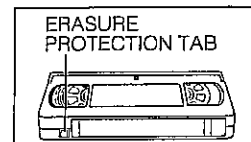
Recording a TV Programme
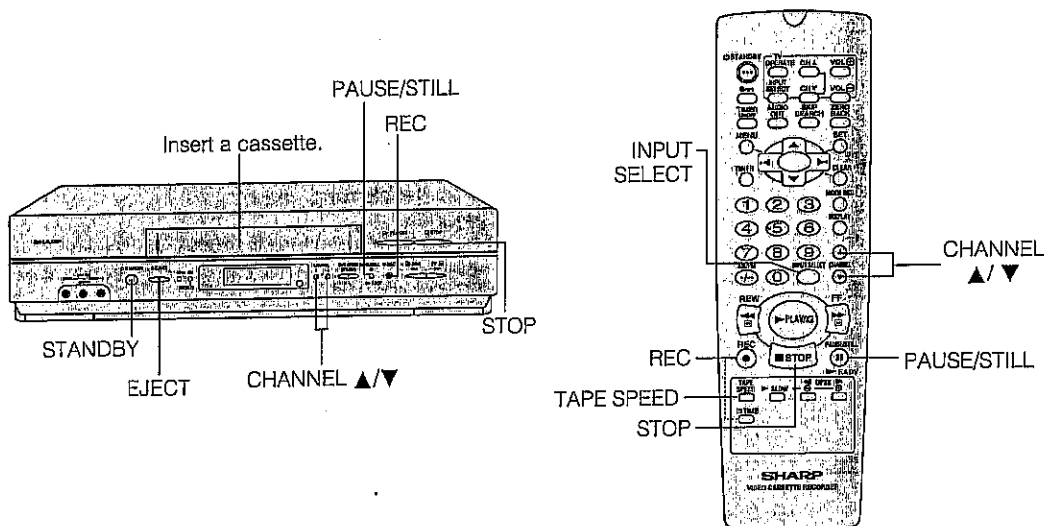
PREPARATION

• Turn on your TV and select the video channel.

PROCEDURE

❶ Turn on the VCR.

❷ Insert the cassette, making sure the erasure protection hole is covered.

❸ Select the channel position you wish to record with CHANNEL ▲/▼.

❹ Select the SP (Standard Play), EP (Extended Play) or LP (Long Play) recording speed with TAPE SPEED on the remote control ("SP", "EP" or "LP" will light up on the VCR display). SP (Standard Play) gives the best picture quality, EP (Extended Play) gives the triple recording time and LP (Long Play) gives the double recording time.

NOTE ▸
• If the COLOUR mode is set to "AUTO", when a SECAM signal is received and the EP mode is selected, the VCR will automatically change the EP mode to LP mode.
• VC-H726X are not equipped with the NTSC tuner. If you want to record the NTSC signal with this VCR, connect this VCR to the other equipment with the NTSC tuner. (See NTSC AV Recording on page 23.)

❺ Press REC. (If the erasure protection hole is uncovered, the cassette will be ejected.) To pause during recording, press PAUSE/STILL (F. ADV). To resume recording, press PAUSE/STILL (F. ADV) again.

❻ To stop recording, press STOP.

NOTE ▸
• The pause mode disengages automatically after about 5 minutes and the VCR enters stop mode.
• To record audio and video from an external source through the AUDIO/VIDEO terminal on the front or rear of the VCR, press INPUT SELECT on the remote control or press CHANNEL ▲/▼ to select the L1 or L2 channel position situated between the last channel and first channel. (When the L1 or L2 position is selected, "L1 or L2" is displayed where a channel position number is usually displayed.)
• If the TV signals are weak and the picture changes to monochrome, set the PAL mode on the MODE selection screen. (See Colour Mode on page 18.) Normally, the colour mode should be set to "AUTO".

To Watch Another TV Programme While Recording

After steps ❶ to ❺ have been completed, select the programme you wish to view using the TV tuner. At the end of the tape, your VCR will automatically stop recording, rewind to the beginning of the tape, turn off the power and eject the tape.

21

Recording Hi-Fi Stereo Sound

This VCR automatically records audio signals on two kinds of audio tracks.

Hi-Fi: Using specialized rotary heads, audio signals are recorded on the video track in the FM format.
Multi channel broadcasts (stereo or bilingual programmes) are automatically recorded on two tracks.

Normal: Audio signals are recorded monaurally on the linear track. Stereo broadcasts are recorded in mono and only the main audio track of bilingual programmes is recorded.

NOTE
- Video cassettes recorded on a non-Hi-Fi VCR can also be played back. However, if the audio signals are recorded on two linear channels, stereo programmes will be played back monaurally and bilingual programmes will be played back with both the main and sub audio tracks mixed together.
- Video cassettes recorded on this VCR can be played back on a non-Hi-Fi VCR. However, only the normal (linear) track will be played back.

Switching Input Signals

Various sources of video and audio signals can be recorded as shown in the following chart.
(a) Selecting a channel will record both video and audio from the VCR tuner.
(b) Selecting an external source position will record both video and audio from an external source via the back-panel AUDIO/VIDEO LINE 1 or front LINE IN 2 terminal. (To select an external source position, press **INPUT SELECT** or select a channel situated between the last channel and the first channel with **CHANNEL ▲/▼**).

Input mode	TV screen	Signals Recorded		
		Video track	Normal audio track	Hi-Fi audio track
Tuner	2	Signals from tuner		
External 1 (LINE 1)	L1	Signals from AUDIO/VIDEO (LINE1) terminal on the rear of the VCR		
External 2 (LINE 2)	L2	Signals from LINE IN 2 terminal on the front of the VCR		

NOTE
- This VCR can record NTSC signals through AV Input terminals.

Recording Audio Only

This VCR can record Hi-Fi audio-only signals.
1. Connect the audio source (CD player, etc.) to the AUDIO-IN L/R terminals on the front or rear of the VCR.
2. Select the connected external position LINE IN 1 or 2 ("L1" or "L2" lights up) by pressing **INPUT SELECT** or **CHANNEL ▲/▼**.
3. Press **TAPE SPEED** on the remote control to select SP, LP or EP mode.
4. Press **REC**.

NOTE
- When playing back an audio-only tape with this VCR using the speakers of a connected TV to listen to the sound, make sure that the TV does not mute the sound when receiving the audio-only signal. If this should happen, output the audio to a separate audio system.

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NTSC AV Recording

Although this VCR does not have an NTSC tuner, NTSC signals can be recorded by connecting a separate NTSC-compatible TV or VCR to the AV input terminals.
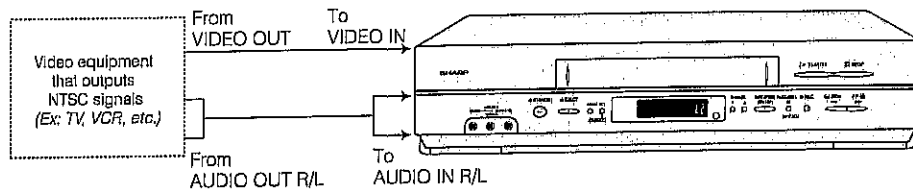
Before recording. NTSC signals through the AV input terminals, refer to **Recording a TV Programme** on page 21.

❶ Select "AUTO" or "NTSC" for the COLOUR mode. (See **Mode Selection** on page 16.)

❷ Select "3.58" or "4.43" for the NTSC mode according to the input signal type. (See **Mode Selection** on page 16.)

❸ Select the connected external position LINE IN 1 or 2 ("L1" or "L2" lights up) by pressing **INPUT SELECT**.

❹ Press **TAPE SPEED** on the remote control to select SP or EP mode.

> NOTE ⮞
> • LP mode cannot be used.
> • HI-FI programmes can only be recorded in SP mode.

❺ Press **REC**.

✅ Simple Recording Timer

There are two ways to use this Simple Recording Timer for your convenience.

- Immediate recording:
  Convenient when having an unexpected visitor or telephone call.
- Delayed recording:
  Convenient when leaving the house or going to bed.

| ⊙ CHANNEL ⊙ | ```
■                    2
S.PICTURE ON
                STEREO
SP              L  R
``` | ❶ Select the channel position to be recorded by pressing **CHANNEL ▲/▼**. *(Ex.: Channel position: 2)* |
| REC ⊙ | ```
•                    2
S.PICTURE ON
    ▣        STEREO
SP   STOP  11:30M   L  R

8:00AM      REM  2:00
15/12 03         0:00.00
``` | ❷ Press **REC** to enter the normal recording mode. Then, press **REC** repeatedly to set the desired ending time. *(Ex.: Ending time: 11:30 AM)*  **NOTE ▷** • Each press of **REC** increases the stop time by 10 minutes. |

NOTE ▷
• Press **STOP** to terminate recording.

Delayed Recording

| ⊙ CHANNEL ⊙ | ```
■                    2
S.PICTURE ON
                STEREO
SP              L  R
``` | ❶ Select the channel position to be recorded by pressing **CHANNEL ▲/▼**. *(Ex.: Channel position: 2)* |
| ▣ TIME ▭ | ```
■                    2
S.PICTURE ON
    ▣START  -8:40M-STEREO
SP              L  R
``` | ❷ Set the starting time by pressing ▣ **TIME**. *(Ex.: Starting time: 8:40 AM)*  **NOTE ▷** • Each press of ▣ **TIME** increases the start time by 10 minutes. • Setting the time within a 24-hour period in 10-minute intervals is possible. |
| REC ⊙ | ```
■                    2
S.PICTURE ON
    ▣START  8:40M STEREO
SP   STOP  -9:30M-  L  R
``` | ❸ Set the ending time by pressing **REC**. *(Ex.: Ending time: 9:30 AM)*  **NOTE ▷** • Each press of **REC** increases the stop time by 10 minutes. |
| ⏻ STANDBY ⊚ | *(VCR display)* | ❹ Press **STANDBY** to turn off the power. *(Ex.: Present time: 8:28 AM)* |

NOTE ▷
• Select the recording speed with **TAPE SPEED** on the remote control, "SP", "EP" or "LP" will light up on the VCR display. (See page 32.)
• After the Simple Recording Timer is set, the channel position cannot be changed.
• To confirm the starting time and the ending time, first turn on the power. Then press ▣ **TIME** to confirm the starting and ending time. And turn off the power.
• To clear the Simple Recording Timer setting during setting of "Delayed Recording", press **CLEAR** on the remote control. To clear after setting, turn on the power, press ▣ **TIME** to select Simple Recording Timer mode and then while the ▣ START time is flashing, press **CLEAR**.
• The Simple Recording Timer cannot be set if the timer has been preset ("▣" indicator on the VCR display is lit). If this is the case, cancel the timer standby mode by pressing **TIMER ON/OFF**, turn on the power and then proceed with setting of the Simple Recording Timer.
• The stop time for delayed recording must be set within 10 seconds of setting the start time, otherwise start time must be set again.

Recording with the Timer

The timer can be set manually for automatic recording of up to 8 events over a 365 day period.

PREPARATION

* Select the video channel on your TV. Turn on the VCR .
* Load the cassette, ensuring the erasure protection hole is covered. The VCR power will automatically turn on.
* Check that the clock is displaying the correct time. (See **Setting the Clock** on page 12.)

PROCEDURE

Example: Recording channel position 47 in SP mode from 12:00 PM to 12:30 PM, December 15, 2002, if the present time is 10:28 (morning), December 14, 2002.

[Timer position] **TIMER** ▲ or ▼ **SET**	❶ Press **TIMER** Select the timer position with ▲/▼ and press **SET**. • If the timer positions 1 to 4 have already been set, the screen changes 2/2 (timer positions 5 to 8).
[Date] **Numeric buttons** or ▲/▼	❷ Set the date for timer recording with the numeric buttons or ▲/▼ on the remote control and then press ▶. • First set the "day" digits and then "month". If there is only one "day" or one "month" digit, enter a 0 first.
[Once] ▶ [Daily/Weekly] ▲/▼ ▶	❸ If you want to record only once, press ▶ and go to step ❹. Otherwise, select "D (DAILY)" to record at the same time each day or "W (WEEKLY)" to record at the same time each week by pressing ▲/▼ and then pressing ▶.
[Channel] **Numeric buttons** or ▲/▼	❹ Set the channel number using the numeric buttons or ▲/▼ and then press ▶. ⬕NOTE⬔ • To record audio and video from an external source through an AUDIO/VIDEO terminal on the VCR, press ▲/▼ to select an AV channel. (When the L1 or L2 position is selected, "L1" or "L2" is displayed where a channel position number is usually displayed.)

Continued on next page

⬕NOTE⬔
* ▲/▼ can also be used to set the date and time instead of the numeric buttons.
* Press 0 first if the day, month, hour or minute is a single digit.

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Numeric buttons or **▲/▼** [Start] — When the clock is set to 24H mode, "AM/PM" will not appear. ```1/2 DATE PR START STOP 15/12 47 12:00M -:-- SP --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- --``` ▶ ▶	**❺** Set the start time with the numeric buttons or ▲/▼ and press ▶.
Numeric buttons or **▲/▼** [Stop] ```1/2 DATE PR START STOP 15/12 47 12:00M12:30M SP --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- --``` ▶ ▶	**❻** Set the stop time with the numeric buttons or ▲/▼ and press ▶.
[Tape Speed] ```1/2 DATE PR START STOP 15/12 47 12:00M12:30M SP --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- --``` ▲ or ▼ **NOTE** • SP: Standard Play • LP: Long Play • EP: Extended Play	**❼** Select the tape speed with ▲/▼. (See **Intelligent Timer Recording (JUST REC)** on page 28.) **NOTE** • If the COLOUR mode is set to "AUTO", when a SECAM signal is received and the EP mode is selected, the VCR will automatically change the EP mode to LP mode. • A tape recorded in the PAL EP (Extended Play) mode can only be playback in a VCR with the same function (PAL EP [Extended Play] mode). • For best result, it is advisable to playback or recording EP mode with this VCR.
SET ○ ▶ [Timer review] ```1/2 DATE PR START STOP 15/12 47 12:00M12:30M SP --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- -- --/-- -- -:-- -:-- -- ▼▼ 2/2 ▼▼ CLEAR:CANCEL ▲▼:SELECT SET:ENTER MENU:EXIT```	**❽** Press **SET**. To programme additional timer settings, repeat steps ❷ through ❼.
MENU ○ ▶ **Normal Screen**	**❾** To return to the normal screen, press **MENU**.
TIMER ON/OFF ○ ▶	**❿** To set the VCR for automatic timer recording, press **TIMER ON/OFF** and ensure the "⏲" indicator lights on the VCR display.

NOTE
- Select the recording speed with **TAPE SPEED** on the remote control, "SP", "EP" or "LP" will light up on the VCR display. (See page 32.)
- If the video cassette runs out before recording all the programmes, your VCR will stop, turn off the power and eject the tape.
- If power is interrupted for more than 60 minutes (power failure, etc.), all timer settings will be cancelled.
- If **TIMER ON/OFF** is pressed when there is no cassette loaded, "⏲" indicator flash for 5 seconds, indicating that timer recording is not possible.
- If **TIMER ON/OFF** is pressed while a cassette with an uncovered erasure protection hole is loaded, "⏲" indicator flash and the cassette is ejected.
- When "⏲" indicator is lit, regular VCR operation, clock setting and setting/cancelling/confirming timer positions are not possible. For regular VCR operation, clock setting and setting/cancelling/confirming timer positions, press **TIMER ON/OFF** to disengage the timer ("⏲" indicator disappears) and then turn on your VCR.
- During timer recording, the timer cannot be set.
- To terminate timer recording, press **STOP** during timer recording.
- If the same time is input for the start time and the stop time, the timer setting will be cancelled.

Confirming Timer Programmes

You can see on the On Screen Display a list of all timer programmes that are already set.

PREPARATION

• Turn on your TV and VCR and select the video channel on the TV.

[Example] TIMER ○ ▶ [screen display] ▶ ▲ or ▼ ▶ SET ○	❶ Press **TIMER**. (If VCR is in timer standby mode and the "⊡" indicator is lit, cancel the timer standby mode by pressing **TIMER ON/OFF** and then turn on the power.) The screen for confirming programmes that have been set will appear. • Check the information displayed. • If you want to correct the data, select the programme to be changed with ▲/▼ and then press **SET**. Correct the setting as described on pages 25 and 26.
MENU ○ ▶ Normal Screen	❷ To return to the normal screen, press **MENU**. • After checking or correcting the programme contents, press **TIMER ON/OFF** to enter the Timer Standby mode.

Cancelling Timer Programmes

Perform the following procedure to cancel timer programmes that have already been set.

PREPARATION

• Turn on your TV and VCR and select the video channel on the TV.

TIMER ○ ▶ [screen display] ▲ or ▼	❶ Press **TIMER**. (If VCR is in timer standby mode and the "⊡" indicator is lit, cancel the timer standby mode by pressing **TIMER ON/OFF** and then turn on the power.) The screen for confirming timer recording programmes that have been set will appear. • Select the programme number you wish to cancel with ▲/▼. (The selected programme will appear highlighted.)
CLEAR ○ ▶ [screen display]	❷ Double-check that it is the programme you wish to cancel, and press **CLEAR**. It will be cleared on the screen.
MENU ○ ▶ Normal Screen	❸ To return to the normal screen, press **MENU**. • If there are still some programmes set, press **TIMER ON/OFF** to enter the Timer Standby mode.

▓ Intelligent Timer Recording (JUST REC)

When the tape is expected to run out halfway during timer recording (except for the Simple Recording Timer) in the SP (Standard Play) mode, the mode will automatically change to the LP (Long Play) mode to prevent termination of recording.
This function works only when JUST REC mode on the MODE selection screen is set to ON.

For example:
- When a 120-minute programme is timer-recorded with a 90-minute tape while the automatic select is set to LP mode as shown below.

┌─ About 60 minutes ─┐	┌─ About 30 minutes ─┐
SP (Standard Play) mode	LP (Long Play) mode

Total: 120 minutes

`NOTE`▶
- **JUST REC does not function when recording programmes in NTSC mode.**
- This function may not properly work for video tapes other than E-60, E-90, E-180 and E-240.
- This tape may not be completely used up.
- When more than one programme is set on the timer, the automatic recording function will work for the length of each timer-set programme, but not for the total length of all programmes.
- When the LP mode is initially used for timer-recording a programme, if the tape is not long enough to record the entire length of the programme, the programme will not be entirely recorded.
- EP mode does not work with this function.

▓ Sharp Super Picture

This function creates clearer modulation during playback for high picture quality.

`S.PICTURE ON`

Press **SUPER P.** on the VCR.
"S.PICTURE ON (or OFF)" will appear on the TV screen for a few seconds. Each time the button is pressed, the mode switches between ON and OFF. (The Sharp Super Picture is preset to ON at the factory.)
ON:
Normally leave the mode set to ON. This high picture quality function will create a clearer image during playback.
OFF:
Set to OFF when playing back a tape on the VCR while editing or when strong noise appears on the screen. Set to OFF when using the VCR as an editing source.

SET
◯
[SUPER P.]

`NOTE`▶
- This function only operates during playback. It will not operate when recording or watching a TV programme with the VCR tuner.
- **When playing S-VHS tape.**
    1. Sharp Super Picture is not function even in "S.PICTURE ON".
    2. OSD Display will continuously display the previous mode.
- If power is interrupted for more than 60 minutes (power failure, etc.), the setting will return to ON.

DPSS (Digital Programme Search System)

With this feature you can quickly locate a desired section of the tape. The DPSS feature makes use of VISS (index) signals to search for a specified tape segment and begin playback automatically.

VISS (Index) Signal
A VISS (index) signal is automatically recorded on the tape at the start of ordinary recording, simple recording timer and timer recording.

Current tape position

Rewind ⟶ ... Fast forward

VISS (Index signals)

❶ Load a tape containing VISS (index) signals into the VCR.
❷ Select the VISS (index) number of the desired programme using **DPSS ▷** or ◁ on the remote control.
   Search starts immediately. (When a signal is located, the displayed number decreases.)
❸ When the selected VISS (index) signal-encoded section is found, playback begins automatically.

▶SLOW — ◁ **DPSS** ▷

[NOTE]▶
- DPSS may not function properly if the VISS (index) signals are too close together (within 5 minutes of each other).
- DPSS can be cancelled by pressing **PLAY/×2** or **STOP**.
- If the tape reaches its end or is rewinded completely before locating the desired VISS (index) signal, DPSS is cancelled.
- DPSS may not function for damaged or worn tapes.
- The DPSS function cannot be used with tapes that contain no VISS (index) signals.
- The starting point of a programme may vary slightly.
- DPSS does not operate during the slow, record, timer standby and timer recording modes or when there is no cassette loaded.

Auto Repeat

With this feature, the entire tape is played back repeatedly.
❶ Set the REPEAT mode on the MODE-selection screen to ON.
   When the video cassette reaches its end, the VCR will stop playback, rewind the tape, and automatically play it back again.

```
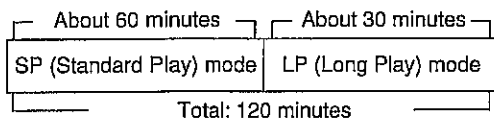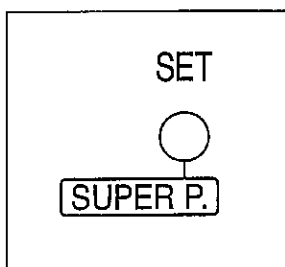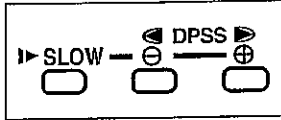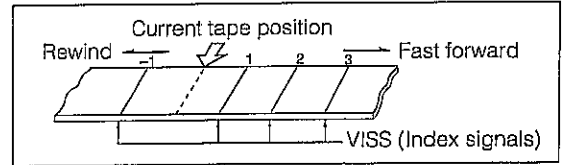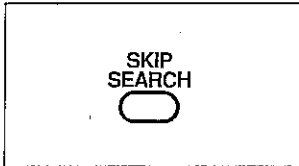COLOUR      AUTO  PAL  NTSC
NTSC    3.58  4.43  PAL  TV
BLUE BACK        AUTO    OFF
AUTO RENTAL      ON      OFF
REPEAT           ON      OFF
JUST REC         ON      OFF
```

[NOTE]▶
- The ON/OFF status of the Auto Repeat can be checked on the MODE Selection screen. (See **Mode Selection** on page 16.) (And when the Auto Repeat is ON, "REPEAT" will be displayed on the OSD.)
- If the Auto Repeat is on and the tape is rewinded to the beginning with rewind or reverse video search, the tape will automatically start playback.

Skip Search

<table>
<tr><td>SKIP
SEARCH
◯</td></tr>
</table>

When **SKIP SEARCH** on the remote control is pressed during playback mode, the VCR will perform a forward video search for a fixed interval of playback time before resuming playback. Depending on how many times the button is pressed, it is possible to set the forward video search time to approx. 30, 60, 90 or 120 seconds of recorded material.

Number of Times Pressed	Forward Video Search Time
1 time	Approx. 30 sec. (of playback time)
2 times	Approx. 60 sec. (of playback time)
3 times	Approx. 90 sec. (of playback time)
4 times	Approx. 120 sec. (of playback time)

Zero Back Function

The zero back function makes the cassette fast forward (or rewind) to the previously set "0:00.00" point and stop there.

<table>
<tr><td>ZERO
BACK
◯</td></tr>
</table>

❶ Make sure the counter is displayed, then press **CLEAR** on the remote control at the point you wish to return to later. "0:00.00" is displayed.

❷ Press **ZERO BACK** on the remote control. The VCR automatically detects the direction of the "0:00.00" position and fast forwards (or rewinds) the tape.

❸ When the tape reaches the "0:00.00" position, the tape automatically stops.

NOTE
• The zero back function does not operate during recording and fast forward (or rewind). The function works during the playback, stop and video search modes.

▓ New Child-Proof Lock

With this feature, you can lock all VCR modes to prevent accidental change. This function works even when the VCR power is off, thus preventing children from operating the VCR or viewing select programmes while you are away from home.

New Child-Proof Lock

❶ Press ⊙⊓ on the remote control for about 2 seconds.
"⊙⊓" flashes and "⊹---" lights on the VCR-function display.

❷ Press ⊙⊓ again.
"⊙⊓" remains lit on the VCR display confirming that New Child-Proof Lock has been activated.

❸ Now regardless of what other operating buttons are touched, the VCR will continue to operate in the present mode.
(If New Child-Proof Lock is activated during playback, once the tape reaches its end, the VCR automatically rewind the tape, turn off the power and eject the tape.)

Disengaging New Child-Proof Lock

• Press ⊙⊓ for about 2 seconds.
"⊙⊓" starts flashing and then disappears. Now, New Child-Proof Lock is disengaged.

Advanced New Child-Proof Lock

❶ Press ⊙⊓ on the remote control for about 2 seconds.
"⊙⊓" flashes and "⊹---" lights on the VCR display.

❷ Input the personal code number (4 digit code) with the numbered buttons. The personal code number you have input is displayed on the VCR display.

❸ Press ⊙⊓ again.
"⊙⊓" remains lit on the VCR display confirming that New Child-Proof Lock has been activated.

❹ Now regardless of what other operating buttons are touched, the VCR will continue to operate in the present mode.
(If New Child-Proof Lock is activated during playback, once the tape reaches its end, the VCR automatically rewind the tape, turn off the power and eject the tape.)

Disengaging Advanced New Child-Proof Lock

❶ Press ⊙⊓ for about 2 seconds.
"⊙⊓" flashes and "⊹---" lights on the VCR display.

❷ Input the personal code number (4 digit code) you used to activate Advanced New Child-Proof Lock with the numbered buttons. The personal code number you have input is displayed on the VCR display.

❸ Press ⊙⊓ again.
"⊙⊓" disappears. Now, New Child-Proof Lock is disengaged. If the code number is wrong, "⊹---" is displayed on the VCR display. Retry to input the right code number. Press ⊙⊓ again.

If you forget your personal code number, you can disengage New Child-Proof Lock with the following procedure:

❶ Press ⊙⊓ for about 2 seconds.
"⊙⊓" flashes and "⊹---" lights on the VCR display.

❷ Press **STANDBY** on both the VCR and remote control for at least 2 seconds. New Child-Proof Lock is disengaged.

[NOTE ▶
• If, New Child-Proof Lock is on, you attempt to change modes by pressing any button, the "⊙⊓" indicator will flash on the VCR display.

▦ VCR Display

When **DISPLAY** is pressed, the display changes in the following way. (However, the following is the case when the clock time is set and displayed in the 12-hour system.)

During Playback

Example:
[TAPE COUNTER]

Example:
[TAPE REMAINING]

Example:
[PRESENT TIME]

During Recording

Example:
[COUNTER]

Example:
[REMAINING TIME]

Example:
[PRESENT TIME]

Example:
[CHANNEL MODE]

NOTE ▶
• During Simple Recording Timer recording, Recording with the Timer or Programming the Timer with G-code , "▣" lights.
• During Playback Hi-Fi or Recording Hi-Fi, "▣▣" lights.

Counter Clear

Make sure the counter is displayed, then press **CLEAR** on the remote control. "0:00.00" is displayed.

NOTE ▶
• The counter will reset to "0:00.00" when the tape is rewinded completely.

▦ Tape Speed Selection

This VCR contains 3 tape speeds.

SP (Standard Play) : Gives the best picture quality.
LP (Long Play) : Gives the double recording time.
EP (Extended Play) : Gives the triple recording time.

During Recording

• When the input signal is PAL signal, each time the **TAPE SPEED** is pressed, tape speed change as below:

$$SP \longrightarrow LP \longrightarrow EP$$

• When the input signal is NTSC signal, each time the **TAPE SPEED** is pressed, tape speed change as below:

$$SP \longrightarrow EP$$

NOTE ▶
• A tape recorded in the PAL EP (Extended Play) mode can only be playback in a VCR with the same function (PAL EP [Extended Play] mode)
• For best result, it is advisable to playback or recording EP mode with this VCR.

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Tape Remaining Display

The tape remaining only works with tapes recorded in PAL. It does not work with tapes recorded in NTSC.

On Screen Display

- Select FULL or COUNTER display mode by pressing **MODE OSD** on the remote control.

```
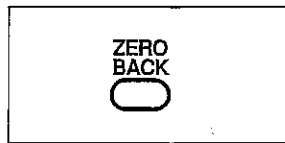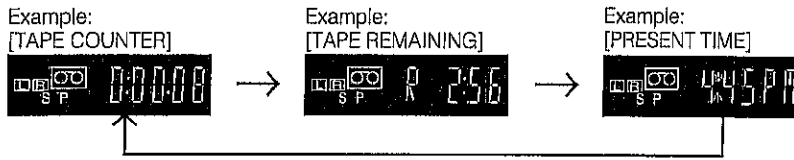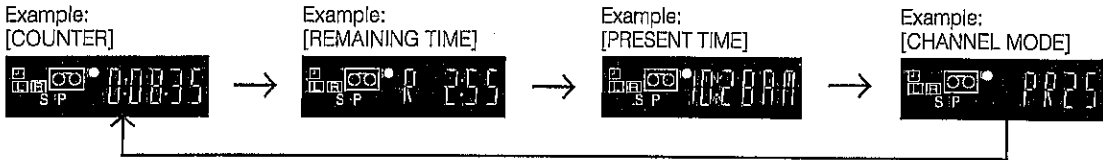           REM 1:05
               0:00.00
```

VCR Display

- Press **DISPLAY** on the remote control.

NOTE
- **This function accurately displays the tape remaining only for tapes recorded in PAL mode. (It does not accurately display the tape remaining for tapes recorded in NTSC mode.)**
- When you insert the tape and the VCR is in the stop mode, the tape remaining cannot be computed. The following indicator is shown when the tape remaining has not yet been computed or cannot be computed.

[OSD]
```
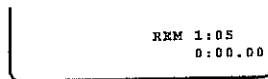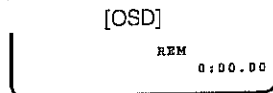           REM
               0:00.00
```

[VCR Display]

- When you start recording or playback, the VCR will begin the computation. However, this may take some time. When computation is completed, tape remaining will be shown on the OSD and VCR display for 5 seconds.
- If the "REM." mode is selected with **MODE OSD** or **DISPLAY** and the VCR is in stop mode, the tape will automatically fast forward or rewind for a few seconds and then the VCR will begin computing the amount of tape remaining.
- During computation, **REC** will not function, and pressing **STOP**, **PLAY/×2**, or other buttons will interrupt the computation.
- Setting the DPSS or ZERO BACK function during computation may cancel it.
- The indicated length of tape remaining is only an approximate guide.
- This function may not properly work for video tapes other than E-60, E-90, E-180 and E-240.
- The length of tape remaining during fast forward or rewind may be indicated as greater than it actually is.
- When VHS and SVHS tapes are used with a cassette adapter, the indication may not be correct.

Warning for the length of tape remaining

When the tape reaches the point where only about five minutes of recording time is left, the remaining length of tape will be automatically displayed, as a warning.

NOTE
- No warning, however, will be shown during timer recording or Simple Recording Timer recording.

Editing from a Camcorder to Your VCR

Editing from your Camcorder is extremely easy using your VCR with a linear tape counter, etc. The connection diagram below is for a guideline only. Refer to your Camcorder Operation Manual for precise connection information.

Camcorder (VIEWCAM)

To AUDIO/VIDEO IN terminals
L1: (LINE IN 1) (Rear)

-or-

L2 — Select Position L2 or L1

L2: (LINE IN 2) (Front)

Specifications

Format:	VHS PAL/NTSC standard
Video recording system:	Two rotary heads, helical scan
Video signal system:	PAL/NTSC colour or monochrome (CCIR system B/G) signal
Hi-Fi audio recording system:	Deep-layer recording system conforming to stereo Hi-Fi VHS standard
Maximum playing time:	720 minutes max. (EP mode) with E-240 tape (PAL)
	480 minutes max. with T-160 tape (NTSC)
Tape width:	12.7 mm
Tape speed:	PAL : 23.39 mm/sec. (SP) , 11.70 mm/sec. (LP) , 7.80 mm/sec. (EP)
	NTSC: 33.35 mm/sec. (SP) , 16.67 mm/sec. (LP: Playback only) ,
	11.12 mm/sec. (EP)
Antenna:	75 Ohm unbalanced
Reception channels:	VHF channel 0 to 12, UHF channel 28 to 69
RF output signal:	UHF channel 28 to UHF channel 69 (preset to UHF channel 37)
Power requirement:	AC 240 V, 50/60 Hz
Power consumption:	14 W (approx.)
Operating temperature:	5°C to 40°C
Storage temperature:	−20°C to 55°C
Video input:	1.0 Vp-p, 75 Ohm
output:	1.0 Vp-p, 75 Ohm
Audio input: (phono type)	Line: −8dBs, 47 kohm min.
output: (phono type)	Line: −8dBs (approx.), 1 kohm max.
Hi-Fi audio:	Dynamic range: Typically 85 dB
	Frequency response: 20 Hz-20 KHz
	Wow and flutter: less than 0.005% Wrm
Dimensions:	430 (W) × 92 (H) × 227 (D) mm
Weight:	2.8 kg
Supplied accessories:	R6 (AA, UM/SUM-3) battery ×2
	75-ohm coaxial cable, operation manual, remote control unit

Design and specifications are subject to change without notice.

Before Calling for Service

Check this list before calling for service.

Problem	Possible Cause/Solutions
MISCELLANEOUS PROBLEMS	
• No power. Cannot turn on the VCR.	• Make sure the power cord is plugged in. • Check the outlet, fuse or circuit breaker. • Press **TIMER ON/OFF** and disengage the timer.
• Cassette cannot be ejected.	
• The VCR display does not operate properly.	• Make sure that the Child-Proof Lock is not engaged. • Safety device in VCR is functioning. • Unplug the VCR and plug it in again after a few hours, and then set the clock again. Set the timer again if necessary.
• No operation when any button is pressed.	
• VCR does not record.	• Cassette's erasure protection tab has been removed. Use a different cassette or place adhesive tape over the tab opening. • Check if a cassette is loaded.
• Cassette is automatically ejected when pressing **REC** or **TIMER ON/OFF**.	• Cassette's erasure protection tab has been removed. Use a different cassette or place adhesive tape over the tab opening.
• No tape movement.	• Make sure VCR is not in pause/still mode. • Make sure tape has not reached the beginning or end.
• Cassette cannot be loaded.	• Make sure there is no other cassette inside. • Make sure the cassette is properly positioned and reinsert.
• Picture does not change even though **CHANNEL** ▲/▼ are pressed.	• Make sure the VCR is not in the timer setting or clock setting mode. • Make sure the VCR is not in the channel setting mode.
• Desired channel position cannot be selected.	• The channel has been set to be skipped. Cancel the skip mode for that channel.
NO COLOUR OR POOR PICTURE	
• No colour or poor TV picture on normal viewing.	• Make sure all the cables are connected properly. • Make sure the VCR power cord is properly plugged in.
• Snowy picture appears on TV during playback.	• Adjust **CHANNEL** ▲/▼ or try a different cassette. • The heads may be dirty from condensed moisture or the magnetic coating of the video tape. (If this is the case, the heads need to be cleaned. Ask the retailer or Sharp approved service centre.)
• No picture appears or colour is not correct during playback.	• Check all connecting cables.
REMOTE CONTROL PROBLEM	
• The VCR cannot be operated by the remote control.	• The remote control unit is too far away from the main unit. • The remote control unit is not pointed correctly at the photoreceptor window. • The batteries are exhausted. • The batteries have not been inserted in the correct direction (+/– polarity).

This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the VCR and plug it in again after a few hours.

SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12)* months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
DO NOT RETURN THIS PAGE TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No._____

Serial No. _____

Date of Purchase_____

Retailer_____

FOR LOCATION ENQUIRIES WITHIN
AUSTRALIA
REGARDING YOUR
LOCAL
SHARP APPROVED SERVICE CENTRE
LOOK ON THE WEB AT
www.sharp.net.au
OR CALL SHARP
1 300 135 022

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
A.B.N. 40 003 039 405
1 Huntingwood Drive Blacktown NSW 2148

IMPORTANT NOTICE: This warranty applies only to products sold in Australia